

We claim:

1. A needle device for percutaneous drug delivery to a patient, the device comprising:

5 a substantially L-shaped, hollow needle for drug delivery therethrough, the needle including a needle end; and

a body secured to said needle and longitudinally spaced from said needle end, said body including an integral pair of flexible handles adapted to be grasped for insertion of said needle device into and removal of said device from said patient.

10

2. The needle device according to claim 1 wherein said body further includes a base and a spacer having first and second ends that are longitudinally spaced apart, said first end being coupled to said base and said second end being coupled to said handles.

15

3. The needle device according to claim 2 wherein said handles are flexible away from said base for grasping.

4. The needle device according to claim 3 wherein each of said handles includes a groove extending along a width of said handles for increased flexing in a preferred region of said handles.

20

5. The needle device according to claim 4 wherein said handles further include respective distal ends that contact each other on backsides thereof when said handles are grasped.

25

6. The needle device according to claim 5 wherein said base is flexible for conforming to a skin surface of a patient.

7. The needle device according to claim 6 further comprising a breathable pad on said base for contact with said skin surface of said patient.

30

10067511.020402

8. The needle device according to claim 7 wherein said breathable pad extends around the periphery of said base.

9. The needle device according to claim 8 wherein said breathable pad is a plastic
5 foam pad.

10. The needle device according to claim 7 wherein said spacer, said base and said handles are integral.

10 11. The needle device according to claim 10 wherein a first portion of said L-shaped needle extends substantially parallel to said base, and a second portion of said L-shaped needle extends from and substantially perpendicular to said base.

12. The needle device according to claim 11 wherein said second portion of said
15 needle extends approximately from a center of said base.

13. The needle device according to claim 11 further comprising a spine on said backside of said pair of handles and between said handles when said handles are flexed away from said base, said spine including said first portion of said L-shaped needle.
20

14. The needle device according to claim 13 wherein said spine includes a needle cover, said needle cover for covering at least a portion of said first portion of said needle, said cover unitary with said spacer, said base and said handles.

25 15. The needle device according to claim 13 wherein said grooves are v-shaped.

16. The needle device according to claim 11 further comprising a flexible tube having one end coupled to and in fluid communication with an end of said first portion of said needle.

2025-11-02 15:54:00